## STIC Biotechnology Systems Branch

## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	10/567,168
Source:	IFWP.
Date Processed by STIC:	2/10/06
•	

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06



**IFWP** 

RAW SEQUENCE LISTING DATE: 02/10/2006
PATENT APPLICATION: US/10/567,168 TIME: 09:45:50

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\02102006\J567168.raw

```
3 <110> APPLICANT: National Institute of Advanced Industrial Science and Technology
              Takaqi, Yasuomi
      6 <120> TITLE OF INVENTION: A method for efficient preparation of dumbell-shaped DNA
      8 <130> FILE REFERENCE: FP-041PCT
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/567,168
C--> 11 <141> CURRENT FILING DATE: 2006-02-03
     13 <150> PRIOR APPLICATION NUMBER: JP P2003-206905
     14 <151> PRIOR FILING DATE: 2003-08-08
                                                                  Does Not Comply
Corrected Diskette Needed
     16 <160> NUMBER OF SEQ ID NOS: 25
     18 <170> SOFTWARE: PatentIn Ver. 2.1
     20 <210> SEQ ID NO: 1
     21 <211> LENGTH: 245
     22 <212> TYPE: DNA
     23 <213 > ORGANISM: Artificial Sequence
     25 <220> FEATURE:
     26 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA
     28 <400> SEQUENCE: 1
     29 aaggtcgggc aggaagaggg cctattttcc atgattcctt catatttgca tatacgatac 60
     30 aaggetgtta gagagataat tagaattaat ttgaetgtaa acacaaagat attagtacaa 120
     31 aatacgtgac gtagaaagta ataatttctt gggtagtttg cagttttaaa attatgtttt 180
     32 aaaatggact atcatatgct taccgtaact tgaaagtatt tcgatttctt ggctttatat 240
     33 atctt
     36 <210> SEQ ID NO: 2
     37 <211> LENGTH: 104
     38 <212> TYPE: DNA
     39 <213> ORGANISM: Artificial Sequence
     41 <220> FEATURE:
     42 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA
     44 <400> SEQUENCE: 2
     45 aatatttgca tgtcgctatg tgttctggga aatcaccata aacgtgaaat gtctttggat 60
                                                                            104
     46 ttqqqaatct tataaqttct qtatqaqacc acagatcgat cccc
     49 <210> SEQ ID NO: 3
     50 <211> LENGTH: 86
     51 <212> TYPE: DNA
     52 <213> ORGANISM: Artificial Sequence
     54 <220> FEATURE:
     55 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA
     57 <400> SEQUENCE: 3
     58 acceptigett teceptagigt agiggettate acepticect aacaceeegaa agepteeeegg 60
     59 ttcgaaaccg ggcactacaa aaacca
     62 <210> SEQ ID NO: 4
     63 <211> LENGTH: 14
     64 <212> TYPE: DNA
```

DATE: 02/10/2006

TIME: 09:45:50

Input Set : A:\PTO.RJ.txt Output Set: N:\CRF4\02102006\J567168.raw 65 <213> ORGANISM: Artificial Sequence 67 <220> FEATURE: 68 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA 70 <400> SEQUENCE: 4 see p. 6 for ever explanation W--> 71 gg/n/tgg/n/tgg (n/tgg 74 <210> SEQ ID NO: 5 75 <211> LENGTH: 15 76 <212> TYPE: DNA 77 <213> ORGANISM: Artificial Sequence 79 <220> FEATURE: 80 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA 82 <400> SEQUENCE: 5 same eur W--> 83 gghtgghnng ghtgg 15 86 <210> SEQ ID NO: 6 87 <211> LENGTH: 16 88 <212> TYPE: DNA 89 <213> ORGANISM: Artificial Sequence 91 <220> FEATURE: 92 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA 94 <400> SEQUENCE: 6 same w--> 95 ggntggnnnn) ggntgg 16 98 <210> SEQ ID NO: 7 99 <211> LENGTH: 17 100 <212> TYPE: DNA 101 <213> ORGANISM: Artificial Sequence 103 <220> FEATURE: 104 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA 106 <400> SEQUENCE: 7 W--> 107 ggntggnnnn nggntgg 17 110 <210> SEQ 1D NO: 8 111 <211> LENGTH: 15 112 <212> TYPE: DNA 113 <213> ORGANISM: Artificial Sequence 115 <220> FEATURE: 116 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA 118 <400> SEQUENCE: 8 15 119 ggcgttcggg gggta 122 <210> SEQ ID NO: 9 123 <211> LENGTH: 63 124 <212> TYPE: DNA 125 <213> ORGANISM: Artificial Sequence 127 <220> FEATURE: 128 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA 130 <400> SEQUENCE: 9 131 ggctatgtct aggagtgtac ctagaattac atcaagggag atggtgcgct cctggacgta 60 132 gcc 135 <210> SEQ ID NO: 10 136 <211> LENGTH: 53 137 <212> TYPE: DNA

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/567,168

 RAW SEQUENCE LISTING
 DATE: 02/10/2006

 PATENT APPLICATION: US/10/567,168
 TIME: 09:45:50

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\02102006\J567168.raw

138 <213> ORGANISM: Artificial Sequence 140 <220> FEATURE: 141 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA 143 <400> SEQUENCE: 10 144 gggtaattgg tagattaagc ggtgtgctgt cccgcttgat ctgccaattg ccc 147 <210> SEO ID NO: 11 148 <211> LENGTH: 43 149 <212> TYPE: DNA 150 <213> ORGANISM: Artificial Sequence 152 <220> FEATURE: 153 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA 155 <400> SEQUENCE: 11 43 156 gggaattcac ctgccggcga gggttttccc agtcacgacg ttg 159 <210> SEQ ID NO: 12 160 <211> LENGTH: 46 161 <212> TYPE: DNA 162 <213> ORGANISM: Artificial Sequence 164 <220> FEATURE: 165 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA 167 <400> SEQUENCE: 12 168 ggctgcagac ctgccggcca ccgagcggat aacaatttca cacagg 46 171 <210> SEQ ID NO: 13 172 <211> LENGTH: 34 173 <212> TYPE: DNA 174 <213> ORGANISM: Artificial Sequence 176 <220> FEATURE: 177 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA 179 <400> SEQUENCE: 13 180 ggtgtgtccg cgttggcttt tgccaacgcg gaca 34 183 <210> SEQ ID NO: 14 184 <211> LENGTH: 59 185 <212> TYPE: DNA 186 <213> ORGANISM: Artificial Sequence 188 <220> FEATURE: 189 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA 191 <400> SEQUENCE: 14 192 cctcggccta tagtgagtcg tattaggcgg gaaccgccta atacgactca ctataggcc 59 195 <210> SEQ ID NO: 15 196 <211> LENGTH: 41 197 <212> TYPE: DNA 198 <213> ORGANISM: Artificial Sequence 200 <220> FEATURE: 201 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA 203 <400> SEQUENCE: 15 41 204 ttaggagttt tctcctaagc gttttcccag tcacgacgtt g 207 <210> SEO ID NO: 16 208 <211> LENGTH: 41 209 <212> TYPE: DNA

210 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING DATE: 02/10/2006
PATENT APPLICATION: US/10/567,168 TIME: 09:45:50

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\02102006\J567168.raw

212 <220> FEATURE: 213 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA 215 <400> SEQUENCE: 16 41 216 ttaqqaqttt tctcctaagc gttttcccag tcacgacgtt g 219 <210> SEQ ID NO: 17 220 <211> LENGTH: 41 221 <212> TYPE: DNA 222 <213> ORGANISM: Artificial Sequence 224 <220> FEATURE: 225 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA 227 <400> SEQUENCE: 17 41 228 ttaggagttt tctcctaagc gttttcccag tcacgacgtt g 232 <210> SEQ ID NO: 18 233 <211> LENGTH: 44 234 <212> TYPE: DNA 235 <213> ORGANISM: Artificial Sequence 237 <220> FEATURE: 238 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA 240 <400> SEQUENCE: 18 44 241 ttaggtcttt tgacctaagc gagcggataa caatttcaca cagg 244 <210> SEQ ID NO: 19 245 <211> LENGTH: 39 246 <212> TYPE: DNA 247 <213> ORGANISM: Artificial Sequence 249 <220> FEATURE: 250 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA 252 <400> SEQUENCE: 19 253 gttttcccag tcacgacgtt gaaggtcggg caggaagag 39 256 <210> SEQ ID NO: 20 257 <211> LENGTH: 44 258 <212> TYPE: DNA 259 <213> ORGANISM: Artificial Sequence 261 <220> FEATURE: 262 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA 264 <400> SEQUENCE: 20 265 gagcggataa caatttcaca caggaaaaag gctacgtcca ggag 44 268 <210> SEQ ID NO: 21 269 <211> LENGTH: 417 270 <212> TYPE: DNA 271 <213> ORGANISM: Artificial Sequence 273 <220> FEATURE: 274 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA 276 <400> SEOUENCE: 21 277 ttaggagttt teteetaage gtttteecag teacgaegtt gaaggteggg caggaagagg 60 278 qcctattttc catqattcct tcatatttqc atatacgata caaggctgtt agagagataa 120 279 ttagaattaa tttgactgta aacacaaaga tattagtaca aaatacgtga cgtagaaagt 180 280 aataatttot tgggtagttt goagttttaa aattatgttt taaaaatggac tatoa'tatgo 240 281 ttaccgtaac ttgaaagtat ttcgatttct tggctttata tatcttgtgg aaaggacgaa 300

282 acaccageta tgtctaggag tgtacctaga attacatcaa gggagatggt gcgctcctgg 360



RAW SEQUENCE LISTING DATE: 02/10/2006 PATENT APPLICATION: US/10/567,168 TIME: 09:45:50

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\02102006\J567168.raw

283 acgtageett ttteetgtgt gaaattgtta teegeteget taggteaaaa gaeetaa 417 285 <210> SEQ ID NO: 22 286 <211> LENGTH: 93 287 <212> TYPE: DNA 288 <213 > ORGANISM: Artificial Sequence 290 <220> FEATURE: 291 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA 293 <400> SEQUENCE: 22 294 tttcccatga ttccttcata tttgcatctt accgtaactt gaaagtattt cgatttcttg 60 295 gctttatata tcttgtggaa aggacgaaac acc 298 <210> SEQ ID NO: 23 299 <211> LENGTH: 109 300 <212> TYPE: DNA 301 <213> ORGANISM: Artificial Sequence 303 <220> FEATURE: 304 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA 306 <400> SEQUENCE: 23 307 tttcccatga ttccttcata tttgcatata ggactatcat atgcttaccg taacttgaaa 60 308 qtatttcqat ttcttqqctt tatatatctt gtggaaagga cgaaacacc 311 <210> SEQ ID NO: 24 312 <211> LENGTH: 58 313 <212> TYPE: DNA 314 <213> ORGANISM: Artificial Sequence 316 <220> FEATURE: 317 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA 319 <400> SEQUENCE: 24 320 qcaqaaqcta tqaaacqatt tgcttcctgt cacaaatcgt tcatagcttc tgcttttt 322 <210> SEQ ID NO: 25 323 <211> LENGTH: 240 324 <212> TYPE: DNA 325 <213> ORGANISM: Artificial Sequence 327 <220> FEATURE: 328 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic DNA 330 <400> SEQUENCE: 25 331 tttcccatga ttccttcata tttgcatata cgatacaagg ctgttagaga gataattaga 60 332 attaatttgc ctgtaaacac aaagatatta gtacaaaata cgtgacgtag aaagtaataa 120 333 tttcttgggt agtttgcagt tttaaaatta tgttttaaaa tggactatca tatgcttacc 180 334 gtaacttgaa agtatttcga tttcttggct ttatatatct tgtggaaagg acgaaacacc 240 W--> 338 (continued from previous page) W--> 339 (continued on next page) delite W--> 342 (continued from previous page) W--> 343\ (continued on next page)

VARIABLE LOCATION SUMMARY
PATENT APPLICATION: US/10/567,168

DATE: 02/10/2006 TIME: 09:45:51

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\02102006\J567168.raw

IM Kylaratur

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of  $\langle 220 \rangle$  to  $\langle 223 \rangle$  is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:4; N Pos. 3,7,8,11

Seq#:5; N Pos. 3,7,8,9,12

Seq#:6; N Pos. 3,7,8,9,10,13

Seq#:7; N Pos. 3,7,8,9,10,11,14

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/567,168

DATE: 02/10/2006 TIME: 09:45:51

Input Set : A:\PTO.RJ.txt

Output Set: N:\CRF4\02102006\J567168.raw

L:10 M:270 C: Current Application Number differs, Replaced Application Number L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:71 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:4 L:71 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:4 L:71 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0 L:83 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:5 L:83 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:5 L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0 L:95 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:6 L:95 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:6 L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0 L:107 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:7 L:107 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:7 L:107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0 L:338 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:4 L:339 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:25 L:339 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:4 L:342 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:25 L:342 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:4 L:343 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:25 L:343 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:4